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 TITLE: Composite-type mixed electric conductors and their manufacture  
 INVENTOR(S): Saito, Tomoyuki; Takamura, Hitoshi; Okada, Masuo  
 PATENT ASSIGNEE(S): TDK Corporation, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.  
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     SECONDARY: H01M004-86  
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PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2005281086	ICM	C04B035-50
	ICS	H01M004-86
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	IPCR	C04B0035-50 [I,A]; C04B0035-50 [I,C*]; H01M0004-86 [N,A]; H01M0004-86 [N,C*]
	FTERM	5H018/AA06; 5H018/BB01; 5H018/BB12; 5H018/EE13; 5H018/HH00

ABSTRACT:

The title conductors contain a Gd-doped cerium oxide O ion conductor phase having formula of  $Ce_{1-x}Gd_xO_{2-x/2}$  ( $0 < x < 0.5$ ), and a spinel type Fe composite oxide electron conductor phase having formula of  $MFe_2O_{4-\delta}$  (M is Mn, Co, and/or Ni,  $Y < 2$ ). The conductors are manufactured by mixing the raw materials, molding, and firing.

SUPPL. TERM: composite mixed elec conductor manuf  
 INDEX TERM: Composites  
     Electric conductors  
     (composite-type mixed elec. conductors and their manufacture)  
 INDEX TERM: 12052-28-7, Cobalt iron oxide ( $CoFe_2O_4$ ) 117655-32-0  
     , Cerium gadolinium oxide ( $Ce_{0.8}Gd_{0.2}O_{1.9}$ )  
 ROLE: TEM (Technical or engineered material use); USES  
 (Uses)  
     (mixed elec. conductors containing; composite-type mixed  
     elec. conductors and their manufacture)

